
CHEMICAL OCEANOGRAPHY

TILTON SCHOOL
TILTON, NH
AUG 12 - 17, 2001

Steven Emerson, Chair
Dave DeMaster, Vice-Chair

Sunday PM

Ocean Chemistry, Dynamics and Climate

Session Chair: **Scott Doney**, National Center for Atmospheric Research, Bolder, CO

- **Nicolas Gruber**, University of California, Los Angeles, CA
"The influence of NAO on the carbon cycle in the North Atlantic Ocean"
- **Richard Matear**, CSIRO, Hobart, Australia
"Changes in ocean biogeochemistry caused by protracted global warming"

Monday AM

Rapid Climate Change

Session Chair: **Thomas Stocker**, University of Bern, Bern, Switzerland

- **Richard Alley**, Penn State University, University Park, PA
"Causes of abrupt climate changes: insights from timing"
- **Olivier Marchal**, University of Bern, Bern, Switzerland
"Atmospheric radiocarbon during the Younger Dryas: Production, ventilation, or both"
- **Paul Baker**, Duke University, Durham, NC
"Climatic variability of tropical South America at annual to orbital time scales"

Monday PM

Chemical Proxies of Past Climate Change

Session Chair: **Adina Paytan**, Stanford University, Stanford, CA

- **Howard Spero**, University of California, Davis, CA
"Carbon isotopes and the marine record: from enigma to maturity"
- **Mark Pagani**, Colorado State University, Fort Collins, CO
"An examination of the boron isotope proxy"

Tuesday AM

The Nitrogen Cycle

Session Chair: **Bess Ward**, Princeton University, Princeton, NJ

- **Daniel Sigman and Karen Casciotti**, Princeton University, Princeton, NJ
"Coupled measurements of nitrogen and oxygen isotopes in oceanic nitrate: A new tool for the study of the marine nitrogen cycle"
- **Bess Ward**, Princeton University, Princeton, NJ
"Functional diversity in microbially mediated nitrogen cycling"
- **Stefan Hulth**, University of Goteborg, Goteborg, Sweden
"Nitrogen transformations in marine sedimentary environments - alternative pathways of anoxic oxidations"

Tuesday PM

Sediment Geochemistry

Session Chair: **Robert Anderson**, Lamont-Doherty Earth Observatory, Palisades, NY

- **Derek Lovley**, University of Massachusetts, Amherst, MA
"Novel microbially catalyzed redox reactions in marine sediments"
- **Philip Froelich**, Georgia Institute of Technology
"Reverse weathering, authigenic aluminosilicate formation and early silica diagenesis in marine sediments"

Wednesday AM

Gas Hydrates

Session Chair: **Erwin Suess**, GEOMAR, Kiel, Germany

- **Gregor Rehder**, Monterey Bay Aquarium Research Institute, Moss Landing, CA
"Experimental tests of mechanisms for rapid transfer of methane from the sea floor to the atmosphere"
- **Mariam Kastner**, Scripps Institution of Oceanography, La Jolla, CA
"Environmental implications of methane venting across the sediment-water interface: Results of a one year in situ experiment at Hydrate Ridge, Cascadia"
- **Matthias Haeckel**, GEOMAR, Kiel, Germany
"Gas hydrate dynamics in surface sediments of Hydrate Ridge: Geochemistry, isotopes, biomarker and modeling studies"

Wednesday PM

Molecular Organic Chemistry

Session Chair: **Tim Eglinton**, Woods Hole Oceanographic Institution, Woods Hole MA

- **Dan Repeta**, Woods Hole Oceanographic Institution, Woods Hole, MA
"New concepts on the composition and cycling of dissolved organic matter in seawater"
- **Stefan Schouten**, Netherlands Institute for Sea Research, den Burg, The Netherlands
"Molecular isotope biogeochemistry: applications in determining processes in contemporary and past oceans"

Thursday AM

Inorganic Chemistry - Metals

Session Chair: **James Moffett**, Woods Hole Institution of Oceanography, Woods Hole, MA

- **Edward Boyle**, Massachusetts Institute of Technology, Cambridge, MA
"New insights into iron geochemistry through high resolution automated sampling and ICP-MS analytical methods"
- **Katherine Barbeau**, University of California, Santa Barbara, CA
"Photochemical cycling of iron in the surface ocean mediated by iron (III)-siderophore complexes: mechanistic insights from molecular structure"
- **Ariel Anbar**, University of Rochester, NY
"Metal isotope fractionation in chemical oceanography: Promise and progress"

Thursday PM

Remote Measurements

Session Chair: **Ken Johnson**, Monterey Bay Aquarium Research Institute, Moss Landing, CA

- **Charlie Eriksen**, University of Washington, Seattle, WA
"Gliders: Platforms for biogeochemical measurements"
- **Ken Smith**, Scripps Institute of Oceanography, CA
"Benthic Rovers as platforms for biogeochemical measurements"



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TILTON SCHOOL
(12-Aug-01) - (17-Aug-01)

NOTE: Receipt of Application does not guarantee acceptance to a Conference. Applications are reviewed by the Conference Chair. If the Chair approves your application, you become **Accepted**, and a registration packet will be mailed immediately. Please allow 3-5 days for your registration to reach you by mail once your name appears. When your registration packet has been received back in our office, you become **Registered**.

Only those who have been **Accepted** or **Registered** will have their names listed below. Names of people who have only applied and have yet to be accepted will NOT appear.

Name	Organization	Participation	Status
<u>JEFFREY T ABELL</u>	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
<u>ROBERT C ALLER</u>	MARINE SCIENCES RESEARCH CENTER	Attendee	Registered
<u>RICHARD ALLEY</u>	PENN STATE UNIVERSITY	Speaker	Registered
<u>LIHINI ALUWIHARE</u>	SCRIPPS INSTITUTION OF OCEANOGRAPHY	Attendee	Registered
<u>ARIEL D ANBAR</u>	UNIVERSITY OF ROCHESTER	Speaker	Registered
<u>ROBERT F ANDERSON</u>	LAMONT-DOHERTY EARTH OBSERVATORY	Discussion Leader	Registered
<u>PIERRE ANSCHUTZ</u>	UNIVERSITE BORDEAUX 1	Poster Presenter	Registered
<u>DAVID E ARCHER</u>	UNIVERSITY OF CHICAGO	Poster Presenter	Registered
<u>PAUL BAKER</u>	DUKE UNIVERISTY	Speaker	Registered
<u>KATHY A BARBEAU</u>	SCRIPPS INSTITUTION OF OCEANOGRAPHY	Speaker	Registered
<u>WILLIAM M BERELSON</u>	UNIVERSITY OF SOUTHERN CALIFORNIA	Poster Presenter	Registered
<u>EDWARD A BOYLE</u>	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Speaker	Registered
<u>DAVID J BURDIGE</u>	OLD DOMINION UNIVERSITY	Poster Presenter	Registered
<u>KAREN L CASCIOTTI</u>	PRINCETON UNIVERSITY	Poster Presenter	Registered
<u>CHRISTOPHER D CHARLES</u>	SCRIPPS INSTITUTION OF OCEANOGRAPHY	Attendee	Registered
<u>JOHN P CHRISTENSEN</u>	BIGELOW LABORATORY	Poster Presenter	Registered
<u>THOMAS M CHURCH</u>	COLLEGE OF MARINE STUDIES, UNIVERSITY OF DELAWARE	Poster Presenter	Registered
<u>YESIM COBAN-YILDIZ</u>	MIDDLE EAST TECHNICAL UNIVERSITY	Attendee	Registered
<u>PAULA G COBLE</u>	UNIVERSITY OF SOUTH FLORIDA	Poster Presenter	Registered
<u>PETER L CROOT</u>	NETHERLANDS INSTITUTE FOR SEA RESEARCH	Poster Presenter	Registered
<u>GREGORY A CUTTER</u>	OLD DOMINION UNIVERSITY	Attendee	Registered
<u>DAVID J DEMASTER</u>	NORTH CAROLINA STATE UNIVERSITY	Vice Chair	Registered
<u>SUVASIS DIXIT</u>	GEORGIA INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
<u>SCOTT DONEY</u>	NATIONAL CENTER FOR ATMOSPHERIC RESEARCH	Speaker	Registered
<u>JOHN P DUNNE</u>	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
<u>MEAGAN J EAGLE</u>	STANFORD UNIVERSITY	Poster Presenter	Registered
<u>TIMOTHY I EGLINTON</u>	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Discussion Leader	Registered
<u>STEVEN EMERSON</u>	UNIVERSITY OF WASHINGTON	Chair	Registered
<u>PIA ENGSTROM</u>	UNIVERSITY OF GOTENBURG	Poster Presenter	Registered
<u>CHARLIE ERIKSEN</u>	UNIVERSITY OF WASHINGTON	Speaker	Registered
<u>KRISTINA L FAUL</u>	STANFORD UNIVERSITY	Poster Presenter	Registered
<u>PHILIP N FROELICH</u>	GEORGIA INSTITUTE OF TECHNOLOGY	Speaker	Registered
<u>BRIAN T GLAZER</u>	UNIVERSITY OF DELAWARE	Poster Presenter	Registered
<u>RALF GOERICKE</u>	SCRIPPS INSTITUTION OF OCEANOGRAPHY	Poster Presenter	Registered
<u>MELCHOR GONZALEZ-DAVILA</u>	UNIVERSIDAD DE LAS PALMAS DE GRAN CANA	Poster Presenter	Registered
<u>NICHOLAS GRUBER</u>	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Speaker	Registered
<u>THOMAS P GUILDERSON</u>	CENTER FOR AMS	Poster Presenter	Registered
<u>MATTHIAS HAECKEL</u>	GEOMAR RESEARCH CENTER FOR MARINE GEOSCIENCES	Speaker	Registered
<u>ROBERTA C HAMME</u>	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
<u>VANESSA HATJE</u>	THE UNIVERSITY OF SYDNEY	Poster Presenter	Registered
<u>KONRAD A HUGHEN</u>	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Poster Presenter	Registered
<u>STEFAN HULTH</u>	UNIVERSITY OF GOTEBOG	Speaker	Registered
<u>CHIN-CHANG HUNG</u>	TEXAS A&M UNIVERSITY AT GALVESTON	Poster Presenter	Registered
<u>ELLERY D INGALL</u>	GEORGIA INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
<u>ANITRA E INGALLS</u>	SUNY AT STONY BROOK	Poster Presenter	Registered

<u>LEONID I IVANOV</u>	MARINE HYDROPHYSICAL INSTITUTE	Poster Presenter	Accepted
<u>KENNETH S JOHNSON</u>	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE	Discussion Leader	Registered
<u>LINDA KALNEJAIS</u>		Attendee	Registered
<u>MARIAM KASTNER</u>	THE SCRIPPS INSTITUTION OF OCEANOGRAPHY	Speaker	Registered
<u>CHRISTINE D KLAAS</u>	UNIVERSITY OF CHICAGO	Poster Presenter	Registered
<u>ERICA KONING</u>	NETHERLANDS INSTITUTE FOR SEA RESEARCH	Poster Presenter	Registered
<u>SERGEY K KONOVALOV</u>	MARINE HYDROPHYSICAL INSTITUTE	Poster Presenter	Registered
<u>BOAZ LAZAR</u>	HEBREW UNIVERSITY OF JERUSALEM	Poster Presenter	Accepted
<u>DAVID W LEA</u>	UNIVERSITY OF CALIFORNIA, SANTA BARBARA	Poster Presenter	Registered
<u>KWANG W LEE</u>	HANYANG UNIVERSITY	Attendee	Registered
<u>CINDY LEE</u>	SUNY AT STONY BROOK	Attendee	Registered
<u>AI NING LOH</u>	SMS/VIMS, COLLEGE OF WILLIAM AND MARY	Poster Presenter	Registered
<u>DEREK R LOVLEY</u>	UNIV OF MASSACHUSETTS, AMHERST	Speaker	Registered
<u>GEORGE W LUTHER</u>	UNIVERSITY OF DELAWARE	Poster Presenter	Registered
<u>SHUFEN MA</u>	UNIVERSITY OF DELAWARE	Poster Presenter	Registered
<u>CLAIRE MAHAFFEY</u>	UNIVERSITY OF LIVERPOOL	Poster Presenter	Registered
<u>OLIVIER MARCHAL</u>	UNIVERSITY OF BERN	Discussion Leader	Registered
<u>CHRISTOPHER S MARTENS</u>	UNIVERSITY OF NORTH CAROLINA CHAPEL HILL	Attendee	Registered
<u>PAMELA A MARTIN</u>	UNIVERSITY OF CHICAGO	Attendee	Registered
<u>RICHARD MATEAR</u>	CSIRO	Speaker	Registered
<u>SARAH A MEARON</u>	STANFORD UNIVERSITY	Poster Presenter	Registered
<u>SHANNON L MESECK</u>	OLD DOMINION UNIVERSITY	Poster Presenter	Registered
<u>SIMONE METZ</u>	NATIONAL SCIENCE FOUNDATION	Attendee	Registered
<u>ELISABETH MICHEL</u>	LSCE, CNRS-CEA	Poster Presenter	Registered
<u>FRANK J MILLERO</u>	UNIVERSITY OF MIAMI	Attendee	Registered
<u>ROBERT D MINARD</u>	PENN STATE UNIVERSITY	Attendee	Registered
<u>CECILE MIONI</u>	LEGOS/CNRS	Poster Presenter	Registered
<u>JAMES W MOFFETT</u>	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Discussion Leader	Registered
<u>WILLARD S MOORE</u>	UNIVERSITY SOUTH CAROLINA	Poster Presenter	Registered
<u>JENNIFER L MORFORD</u>	WOODS HOLE OCEANOGRAPHIC INSTITUTE	Poster Presenter	Registered
<u>JAMES W MURRAY</u>	UNIVERSITY OF WASHINGTON	Poster Presenter	Registered
<u>BAGHDAD B OUDDANE</u>	UNIVERSITY OF LILLE1	Poster Presenter	Registered
<u>MARK PAGANI</u>	COLORADO STATE UNIVERSITY	Speaker	Registered
<u>SILVIO C PANTOJA</u>	UNIVERSITY OF CONCEPCION	Poster Presenter	Registered
<u>ADINA PAYTAN</u>	STANFORD UNIVERSITY	Discussion Leader	Registered
<u>TSUNG-HUNG PENG</u>	NOAA, ATLANTIC	Attendee	Registered
<u>MICHAEL E Q PILSON</u>	GRADUATE SCHOOL OF OCEANOGRAPHY	Attendee	Registered
<u>BRIAN N POPP</u>	UNIVERSITY OF HAWAII	Poster Presenter	Registered
<u>HOSSAIN H RAHIMPOUR-BONAB</u>	TEHRAN UNIVERSITY	Attendee	Accepted
<u>HARUNUR RASHID</u>	MCGILL UNIVERSITY	Attendee	Registered
<u>GREGOR J REHDER</u>	MBARI	Speaker	Registered
<u>CLARE E REIMERS</u>	OREGON STATE UNIVERSITY	Poster Presenter	Registered
<u>DANIEL REPETA</u>	WOODS HOLE OCEANOGRAPHIC INSTITUTION	Speaker	Registered
<u>MATTHEW K REUER</u>	MIT	Poster Presenter	Registered
<u>DONALD L RICE</u>	NATIONAL SCIENCE FOUNDATION	Speaker	Registered
<u>MAK SAITO</u>	PRINCETON UNIVERSITY	Poster Presenter	Registered
<u>POULOMI SANNIGRAHI</u>	GEORGIA INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
<u>FRANK J SANSONE</u>	UNIVERSITY OF HAWAII	Poster Presenter	Registered
<u>MAGDALENA J SANTANA-CASIANO</u>	UNIVERSIDAD DE LAS PALMAS DE GRAN CANA	Poster Presenter	Registered
<u>PETER SANTSCHI</u>	TEXAS A&M UNIVERSITY	Attendee	Registered
<u>BERND SCHNEIDER</u>	BALTIC SEA RESEARCH INSTITUTE	Poster Presenter	Registered
<u>STEFAN SCHOUTEN</u>	NIOZ (NETHERLANDS INST OF SEA RESEARCH)	Speaker	Registered
<u>DANIEL M SIGMAN</u>	PRINCETON UNIVERSITY	Speaker	Registered
<u>JEAN-PAUL SIMJOUW</u>	OLD DOMINION UNIVERSITY	Poster Presenter	Registered
<u>JAAP SINNINGHE-DAMSTE</u>	NETHERLANDS INSTITUTE VOOR ONDERZOEK DER ZEE	Speaker	Accepted
<u>KEN SMITH</u>	UNIVERSITY OF CALIFORNIA, SAN DIEGO	Speaker	Registered
<u>HOWARD SPERO</u>	UNIVERSITY OF CALIFORNIA, DAVIS	Speaker	Registered
<u>HILMAR A STECHER</u>	OREGON STATE UNIVERSITY	Attendee	Registered
<u>THOMAS STOCKER</u>	UNIVERSITY OF BERN	Discussion Leader	Registered
<u>NIKLAS STROMBERG</u>	ANALYTICAL AND MARINE CHEMISTRY	Poster Presenter	Registered
<u>ERWIN SUESS</u>	GEOMAR	Discussion Leader	Registered
<u>MING-YI SUN</u>	UNIVERSITY OF GEORGIA	Poster Presenter	Accepted
<u>BJORN SUNDBY</u>	MCGILL UNIVERSITY	Poster Presenter	Registered
<u>MARTIAL TAILLEFERT</u>	GEORGIA INSTITUTE OF TECHNOLOGY	Poster Presenter	Registered
<u>BO THAMDRUP</u>	AMES RESEARCH CENTER	Poster Presenter	Registered
<u>CARRIE J THOMAS</u>	NORTH CAROLINA STATE UNIVERSITY	Poster Presenter	Registered
<u>ROBERT E TROUWBORST</u>	UNIVERSITY OF DELAWARE	Poster Presenter	Registered
<u>PHILIPPE VAN CAPPELLEN</u>	UTRECHT UNIVERSITY	Poster Presenter	Registered
<u>CLAAR VAN DER ZEE</u>	NETHERLANDS INSTITUTE FOR SEA RESEARCH (NIOZ)	Poster Presenter	Registered
<u>ALEXANDER VAN GEEN</u>	LAMONT-DOHERTY EARTH OBS.	Poster Presenter	Registered

MICHAEL W WARA
BESS B WARD
JOAN D WILLEY
GISELA WINCKLER
ULRICH G WORTMANN
JIA-ZHONG ZHANG

UNIVERSITY OF CALIFORNIA, SANTA CRUZ
PRINCETON UNIVERSITY
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON
LAMONT-DOHERTY EARTH OBSERVATORY
ETH-ZURICH
CIMAS/RSMAS/UNIVERSITY OF MIAMI

Poster Presenter	Registered
Discussion Leader	Registered
Poster Presenter	Registered
Poster Presenter	Registered
Poster Presenter	Registered
Attendee	Registered

